

1600

## ENTERED

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/424,705B

DATE: 12/31/2002 TIME: 14:07:02

Input Set : A:\EP.txt

5	·	RECEIVED							
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	4 <140> CURRENT APPLICATION NUMBER: 09/424,705B 5 <141> CURRENT FILING DATE: 2000-06-02	02112111000/2000							
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	3 <151> PRIOR FILING DATE: 1998-05-22								
	) <160> NUMBER OF SEQ ID NOS: 11								
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	3 <400> SEQUENCE: 1								
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35									
36									
	get gge ttg ctg ctg gea get cag ccg gee atg geg								
	Ala Gly Leu Leu Leu Ala Ala Gln Pro Ala Met Ala								
	0 10 15 20 20 at a con	25 tca gtg aag 150							
	2 ctg cag cag tct ggg gct gaa ctg gca aga cct ggg gcc 3 Leu Gln Gln Ser Gly Ala Glu Leu Ala Arg Pro Gly Ala								
44		40							
	atg tee tge aag get tet gge tae ace ttt act agg tae								
	Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Arg Tyr								
48	3 45 50	55							
	) tgg gta aaa cag agg cct gga cag ggt ctg gaa tgg att								
	Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile	Gly Tyr Ile							
52		004							
	l aat cct agc cgt ggt tat act aat tac aat cag aag ttc								
55 56	5 Asn Pro Ser Arg Gly Tyr Thr Asn Tyr Asn Gln Lys Phe 5 75 80 85	rak vab rak							
	gcc aca ttg act aca gac aaa tcc tcc agc aca gcc tac	atg caa ctg 342							
	Ala Thr Leu Thr Thr Asp Lys Ser Ser Ser Thr Ala Tyr								
	90 95 100	105							
62	age age etg aca tet gag gae tet gea gte tat tae tgt								
63	B Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys .	Ala Arg Tyr							

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PATENT APPLICATION: US/09/424,705B

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Input Set : A:\EP.txt

110	
64 110 115 120	420
66 tat gat gat cat tac agc ctt gac tac tgg ggc caa ggc acc act ctc	438
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68 125 .130 135	400
70 aca gtc tcc tca gcc aaa aca aca ccc aag ctt gaa gaa ggt gaa ttt.	486
71 Thr Val Ser Ser Ala Lys Thr Thr Pro Lys Leu Glu Glu Glu Phe	
72 140 145 150	
74 toa gaa goa ogo gta gat ato gtg oto act cag tot oca goa ato atg	534
75 Ser Glu Ala Arg Val Asp Ile Val Leu Thr Gln Ser Pro Ala Ile Met	
76 155 160 165	
78 tct gca tct cca ggg gag aag gtc acc atg acc tgc agt gcc agc tca	582
79 Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser	
80 170 175 180 185	
82 agt gta agt tac atg aac tgg tac cag cag aag tca ggc acc tcc ccc	630
83 Ser Val Ser Tyr Met Asn Trp Tyr Gln Gln Lys Ser Gly Thr Ser Pro	
84 190 195 200	
86 aaa aga tgg att tat gac aca tcc aaa ctg gct tct gga gtc cct gct	678
87 Lys Arg Trp Ile Tyr Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Ala	
88 205 210 215	
90 cac ttc agg ggc agt ggg tct ggg acc tct tac tct ctc aca atc agc	726
91 His Phe Arg Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser	
92 220 225 230	•
94 ggc atg gag gct gaa gat gct gcc act tat tac tgc cag cag tgg agt	774
95 Gly Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser	
96 235 240 245	
·	822
98 agt aac cca ttc acg ttc ggc tcg ggg aca aag ttg gaa ata aac cgg	822
98 agt aac cca ttc acg ttc ggc tcg ggg aca aag ttg gaa ata aac cgg 99 Ser Asn Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Asn Arg	822
98 agt aac cca ttc acg ttc ggc tcg ggg aca aag ttg gaa ata aac cgg 99 Ser Asn Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Asn Arg 100 250 255 260 265	
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98 agt aac cca ttc acg ttc ggc tcg ggg aca aag ttg gaa ata aac cgg 99 Ser Asn Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Asn Arg 100 250 255 260 265 102 gct gat act gca cca act gga tcc gaa caa aag ctg atc tca gaa gaa 103 Ala Asp Thr Ala Pro Thr Gly Ser Glu Gln Lys Leu Ile Ser Glu Glu 104 270 275 280  106 gac cta aac tca cat cac cat cac cat cac taatctaga 107 Asp Leu Asn Ser His His His His His His 108 285 290  111 <210> SEQ ID NO: 2 112 <211> LENGTH: 291 113 <212> TYPE: PRT 114 <213> ORGANISM: Homo sapiens 116 <400> SEQUENCE: 2 117 Met Lys Tyr Leu Leu Pro Thr Ala Ala Ala Gly Leu Leu Leu Leu Ala 118 1 5 10 15 119 Ala Gln Pro Ala Met Ala Gln Val Gln Leu Gln Gln Ser Gly Ala Glu 120 20 25 30 121 Leu Ala Arg Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly 122 35 40 45 123 Tyr Thr Phe Thr Arg Tyr Thr Met His Trp Val Lys Gln Arg Pro Gly 124 50 55 60	870
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127 128	Asn	Tyr	Asn	Gln	Lys 85	Phe	Lys	Asp	Lys	Ala 90	Thr	Leu	Thr	Thr	Asp 95	Lys	
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	Ser	Ala	Val 115		Tyr	Cys	Ala	Arg 120		Tyr	Asp	Asp	His 125		Ser	Leu	
	Asp	Tyr 130		Gly	Gln	Gly	Thr		Leu	Thr	Val	Ser 140		Ala	Lys	Thr	
135			Lys	Leu	Glu		Gly	Glu	Phe	Ser			Arg	Val	Asp		
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143 144	Ser	Lys 210	Leu	Ala	Ser	Gly	Val 215	Pro	Ala	His	Phe	Arg 220	Gly	Ser	Gly	Ser	
	C1.,		802	П	C0.2	T 011		T10	Cox	C1	Mot		71.	C1.,	7 00	7/1 -	
	225	1111	ser	тут	ser	230	Thr	116	Set	сту	235	GLU	мта	GIU	ASP	240	
		Thr	Тих	Тих	Cvc		Gln	Trn	Cor	Cor		Dro	Dho	Th~	Dho	-	
148	Αια	1111	ıyı	тут	245	GIII	GIII	ттр	261	250	ASII	rio	rne	1111	255	СТУ	
	Sar	Cl v	Thr	Tuc		Clu	Ile	Λen	Λrα		Nen	Thr	Nlα	Dro		Clv	
150	ser	сту	1111	260	ьеи	GIU	TTE	ASII	265	Ата	Asp	1111	ATG	270	1111	GIY	
	Sor	Glu	Gln		Lou	T10	Ser	Clu		Acn	LON	λcn	Sor		uic	ui c	
152	261	Giu	275	пуз	пеа	116	Ser	280	Gru	изр	ьеи	ASII	285	1112	1112	1112	
	His	Hie	-					200					203				
154	1113	290	1113														
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167	guut	cca	-ca c	rugu	gage	14 4	. cuu									la Ala	J 4
168										, 0 1	,		5	. 0 11		1114	
	act	aac	tta	cta	cta	cta	gca			cca	acc			cad	ata	cad	102
							Ala										102
172	10	0-1				15			0111		20			<b>0 1</b> · · ·		25	
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176			~		30					35		1		~ ~ -	40	-1-	
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DATE: 12/31/2002

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Input Set : A:\EP.txt

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							Thr											234
188		75	001	9		- 1 -	80	11011	- 1 -	11011	0111	85	1110	шys	1100	шур	•	
	gac	aaq	qcc	aca	ttq	act	aca	qac	aaa	tcc	tcc		aca	acc	tac	atq		342
							Thr											•
192	90	-				95		-	_		100				-2	105		
194	caa	ctg	agc	agc	ctg	aca	tct	gag	gac	tct	gca	gtc	tat	tac	tgt	gca		390
							Ser											
196					110				_	115			_	_	120			
198	aga	tat	tat	gat	gat	cat	tac	agc	ctt	gac	tac	tgg	ggc	caa	ggc	acc		438
199	Arg	Tyr	Tyr	Asp	Asp	His	Tyr	Ser	Leu	Asp	Tyr	Trp	Gly	Gln	Gly	Thr		
200				125					130					135				
							gcc											486
	Thr	Leu		Val	Ser	Ser	Ala	_	Thr	Thr	Pro	Lys		Gly	Gly	Asp		
204			140					145					150					
							cca											534
	TTE		Leu	Thr	GIn	Thr	Pro	Ala	Ser	Leu	Ala		Ser	Leu	GTA	GIn		
208		155					160					165			4			F 0 0
							aag											582
	170	·AIA	IIII	TTE	ser	175	Lys	Ald	ser	GIII	180	vaı	Asp	ıyr	Asp	185		
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							Tyr											050
216	пор	DCI	- 1 -	LCu	190	111	- y -	0111	OIII	195	110	Ory	OIII	110	200	дуЗ		
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					_	-	Ser			_								
220				205	-				210			-		215				
222	ttt	agt	ggc	agt	ggg	tct	ggg	aca	gac	ttc	acc	ctc	aac	atc	cat	cct		726
223	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Asn	Ile	His	Pro		
224			220					225					230					
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228		235					240					245		-				000
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	_	Pro	rrp	Thr	Pne	_	Gly	GIĀ	Thr	ьys		GIU	шe	гàг	Arg			
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RAW SEQUENCE LISTING DATE: 12/31/2002 PATENT APPLICATION: US/09/424,705B TIME: 14:07:02

Input Set : A:\EP.txt

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251 Ala Gln Pro Ala Met Ala Gln Val Gln Leu Gln Gln Ser Gly Ala Glu
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253 Leu Ala Arg Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly
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255 Tyr Thr Phe Thr Arg Tyr Thr Met His Trp Val Lys Gln Arg Pro Gly
257 Gln Gly Leu Glu Trp Ile Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr
258 65
259 Asn Tyr Asn Gln Lys Phe Lys Asp Lys Asp Lys Ala Thr Leu Thr Thr
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261 Asp Lys Ser Ser Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser
                                  105
263 Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg Tyr Tyr Asp Asp His Tyr
264 115
                               120
265 Ser Leu Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser Ala
                           135
267 Lys Thr Thr Pro Lys Leu Gly Gly Asp Ile Leu Leu Thr Gln Thr Pro
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                                          155
269 Ala Ser Leu Ala Val Ser Leu Gly Gln Arg Ala Thr Ile Ser Cys Lys
                  165
                                      170
271 Ala Ser Gln Ser Val Asp Tyr Asp Gly Asp Ser Tyr Leu Asn Trp Tyr
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273 Gln Gln Ile Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Asp Ala Ser
275 Asn Leu Val Ser Gly Ile Pro Pro Arg Phe Ser Gly Ser Gly Ser Gly
                           215
277 Thr Asp Phe Thr Leu Asn Ile His Pro Val Glu Lys Val Asp Ala Ala
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                                          235
279 Thr Tyr His Cys Gln Gln Ser Thr Glu Asp Pro Trp Thr Phe Gly Gly
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                   245
281 Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala Ala Gly Ser
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283 Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Ser His His His His
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285 His His
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294 <221> NAME/KEY: CDS
295 <222> LOCATION: (28)...(891)
297 <400> SEQUENCE: 5
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299
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300
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VERIFICATION SUMMARY

DATE: 12/31/2002

PATENT APPLICATION: US/09/424,705B

TIME: 14:07:03

Input Set : A:\EP.txt